

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of)
Brotz, et al.) Examiner:
Serial No.)
Filing Date:)
For: Intelligent Device Having)
Background Caching of Web)
Pages Within a Digital Television))
System and Method of Same)
(as filed))
A Continuation of:)
Serial No. 09/216,668)
Filing Date: December 16, 1998)

)

Hon. Assistant Commissioner for Patents

Washington, D.C. 20231

PRELIMINARY AMENDMENT TO PATENT APPLICATION

Dear Sir:

Applicant submits the instant Preliminary Amendment to the above captioned patent application. Applicant respectfully requests entry of the instant Preliminary Amendment before examination of the above captioned case.

Attorney Docket No.
SONY-50M2577.CON

PRELIMINARY AMENDMENT

IN THE TITLE:

Please delete the instant Title of the Invention and insert in place thereof
--INTELLIGENT DEVICE HAVING BACKGROUND CACHING OF WEB PAGES
FROM A DIGITAL TELEVISION BROADCAST SIGNAL AND METHOD OF
SAME--.

IN THE CLAIMS

Please delete, without prejudice, Claims 8 and 23.

Please amend the following claims as shown below:

1. (Amended) In a digital [television] electronic system, a method of displaying information comprising the steps of:
 - a) maintaining an intelligent filter that records hypertext documents that were previously accessed by a viewer of said digital [television] electronic system;
 - b) monitoring datacast information decoded from a digital television broadcast signal to identify newly received hypertext documents;
 - c) storing into a cache memory any of said newly received hypertext documents that are recorded in said intelligent filter;
 - d) receiving, from a viewer, an identifier of a selected hypertext document; and
 - e) provided said selected hypertext document is located within said cache memory, accessing said selected hypertext document from said cache

memory and displaying said selected hypertext document on a display screen of said digital [television] electronic system.

2. (Amended) A method as described in Claim 1 wherein said datacast information comprises a domain of hypertext documents that are periodically broadcast and wherein said digital electronic system is a digital television system.

7. (Amended) A method as described in Claim 1 wherein said hypertext documents are web pages and wherein said identifiers [and] are web page addresses.

15. (Amended) A method as described in Claim 10 wherein said hypertext documents are web pages and wherein said identifiers [and] are web page addresses.

16. (Amended) A digital [television] electronic system comprising:
a display screen;
a tuner coupled to receive a digital television broadcast signal;
an intelligent controller coupled to said display screen and coupled to said tuner, said intelligent controller comprising a processor coupled to a bus and a memory unit containing instructions that when executed implement a method of displaying information comprising the steps of:

- a) maintaining an intelligent filter that records hypertext documents that were previously accessed by a viewer of said digital [television] electronic system;
- b) monitoring datacast information decoded from said digital television broadcast signal to identify newly received hypertext documents;
- c) storing into a cache memory any of said newly received hypertext documents that are recorded in said intelligent filter;
- d) receiving, from a viewer, an identifier of a selected hypertext document; and
- e) provided said selected hypertext document is located within said cache memory, accessing said selected hypertext document from said cache memory and displaying said selected hypertext document on said display screen.

17. (Amended) A digital [television] electronic system as described in Claim 16 wherein said datacast information comprises a domain of hypertext documents that are periodically broadcast.

18. (Amended) A digital [television] electronic system as described in Claim 17 wherein said method further comprises the step of f) provided said selected hypertext document is not located within said cache memory, obtaining said selected hypertext document upon its next occurrence within said datacast information and displaying said selected hypertext document on said display screen.

19. (Amended) A digital [television] electronic system as described in Claim 17 wherein said method further comprises the step of f) provided said selected hypertext document is not located within said cache memory, obtaining said selected hypertext document from a digital modem coupled to the word wide web and displaying said selected hypertext document on said display screen.

20. (Amended) A digital [television] electronic system as described in Claim 16 wherein said step a) comprises the steps of:

- a1) receiving and recording identifiers of hypertext documents accessed by said viewer;
- a2) recording a count associated with each identifier received by said step a1), said count indicating the number of times each recorded hypertext document was accessed by said viewer; and
- a3) ranking said identifiers of said intelligent filter based on their associated counts.

21. (Amended) A digital [television] electronic system as described in Claim 20 wherein said step a) further comprises the step of a4) removing from said intelligent filter any recorded identifier of a hypertext document that has not been accessed by said viewer for a predetermined time period.

22. (Amended) A digital [television] electronic system as described in Claim 16 wherein said hypertext documents are web pages and wherein said identifiers [and] are web page addresses.

REMARKS

Claims remaining in the present application are Claims 1 - 7 and 9 - 22. Claims 1-2, 7, 15, and 16-22 of the present application and the Title of the Invention are amended herein to more particularly point out aspects of the present invention. No new matter has been introduced as a result of these claim amendments.

Respectfully submitted,
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